AUTHOR INDEX

Adem, E. H., 195
Almeida, M., 47
Andrieux, C. P., 155
Audebert, P., 155

Bechgaard, K., 65
Begin, D., 97, 113
Bernier, P., 47
Bertault, M., 77
Billaud, D., 97, 103, 113
Boiteux, G., 195
Bryce, M. R., 307
Budrowski, C., 151
Buisson, J. P., 209
Bukowska, J., 135, 143
Bulka, B. R., 67
Buravov, L. I., 271

Cao, Y., 319
Chan, H. S. O., 333
Chasseau, D., 57
Compton, R. G., 371
Coulon, C., 57
Crayston, J. A., 365
Cupertino, D. C., 365
Czerwiński, W., 229

Davenas, J., 195
Debrue, G., 221
Delhaes, P., 9
Deltour, R., 221
Dhindsa, A. S., 307

Eckhard, H., 209
El Shafee, E., 221

Fabre, J. M., 57, 65
Faria, R. M., 77
Firlej, L., 39
Floriańczyk, Z., 241, 249
Forster, H. S., 365
François, B., 91

Garrigou-Lagrange, C., 9
Genoud, F., 129, 159
Ghanbaja, J., 103, 113
Giral, L., 57
Gorgues, A., 65
Gouasmia, A. K., 57
Goulon, C., 103
Graja, A., 17, 39, 53
Grandjean, D., 9
Granier, T., 57
Gromov, L. A., 377

Harrach, A., 97
Hayashida, S., 253
Hilti, B., 357
Ho, P. K. H., 333

Ignatious, F., 91
Ikenoue, Y., 263
Inagaki, M., 383
Itoh, E., 383

Jackowska, K., 135, 143
Jen, K. Y., 209
Jeszka, J. K., 215
Jubault, M., 65

Kang, E. T., 345
Kartsovnik, M. V., 357
Khomenko, A. G., 271
Kobayashi, T., 215
Kononovich, P. A., 357
Kotov, A. I., 271
Krawiec, W., 249
Kruszka, J., 129
Kryszewski, M., 39, 215
Kucharski, Z., 151
Kulszewicz-Bajer, I., 129

Langer, J. J., 295, 301
Lapkowski, M., 169, 183
Laukhin, V. N., 357
Laukhina, E. E., 1
Lefrant, S., 123, 209
Lelaurain, M., 113
Listós, T., 249
Lvov, Y. M., 307
Lyubovskii, R. B., 1

Makova, M. K., 1
Mathis, C., 91
Mayer, C. W., 357
Menardo, C., 159
Métrot, A., 97
Mevellec, J. Y., 209
Morton-Blake, D. A., 281
Mulazzi, E., 123
Munro, H. S., 307

Nahapetyan, S. S., 271
Nalwa, H. S., 387
Nechtschein, M., 129, 159
Neoh, K. G., 345
Niwa, O., 253

Orczyk, M., 77
Ouahab, L., 9

Pęcherz, J., 39
Pesotskii, S. I., 357
Pesz, K., 83
Petty, M. C., 307
Pokhodnya, K. I., 17
Proń, A., 129
Przyluski, J., 151, 241, 249

Rachdi, F., 47
Ribet, M., 47

Saldi, F., 113
Sallé, M., 65
Savéant, J. M., 155
Schegolev, I. F., 357
Sekretarczyk, G., 53
Shklover, V. E., 271
Sillion, B., 195
Stocka, K., 129
Struchkov, Yu. T., 271
Such, K., 241
Sukegawa, K., 253
Suwalski, J., 151
Świetlik, R., 17
Sworakowski, J., 77

© Elsevier Sequoia/Printed in The Netherlands

Tan, B. T. G., 333, 345
Tan, K. L., 333, 345
Tanaka, A., 383
Texier, F., 65
Tracz, A., 215, 221
Travers, J.-P., 159

Ukhin, L. Yu., 271
Ulánski, J., 215, 221

Vaca, P., 57
Verdon, T., 123
Vetoshkina, L. V., 271
Vinogradov, G. A., 377

Waller, A. M., 371
Ward, R. J., 307
Wieczorek, W., 241, 249
Wyciślik, H., 241

Yagubskii, E. B., 1, 271
Yamamoto, N., 215
Yartsev, V. M., 29

Zagórska, M., 129

SUBJECT INDEX

Alkali metal(s)
-doped polyacetylene, electrostatic investigation of, 281
thermal behaviour of polyacetylene heavily doped with; EPR studies, 103
Anisotropy
temperature dependence of, of conductivity in oriented reticulate-doped systems, 221

BEDT-TTF salts
cationic dithiolene metal complexes with 5,6-dihydro-1,4-dithiin-2,3-dithiol; highly conducting metal complex analogues of, 271
Bonds
itinerant valence, 67

Carbazole
electrochemical oxidation of vacuum-deposited; preparation and film properties, 253
Charge-transfer complexes
electrical properties and structural data of radical-cation salts and, in TTF and TSF families, 57
Charge-transfer crystals
complex conductivity of trimerized quasi-one-dimensional; arbitrary trimer, 29
Charge-transfer reactions
studies of modified electrodes starting from pyrrole monomers derivatized by anthraquinone, phenothiazine or anthracene moieties on N or in 3-position; syntheses, cyclic voltammetry and study of, 155
Charge-transfer salts
optical study of, with organic donors issued from TTF and tetracyanometallate planar dianions $M(CN)_4$, M = Pt(II), Ni(II), 9
Chemical insertion
of organic cations into polyacetylene; kinetics and doping level control, 91
Chemical preparation and characterization
of conductive polyaniline laminate thin films, 333
Conducting copolymer
of 3-methylthiophene and methyl methacrylate, soluble, 387
Conducting material
poly(11-vinylfluoranthene), novel, 371
Conducting polymers
analogous to poly(isothianaphthene), synthesis and characteristic properties of poly(naphtho[2,3-*c*]thiophene) as series of fused-ring, 263
Conductive network
submicroscopic structure of TTT-TCNQ, in reticulate-doped polymers revealed by SEM, 215
Conductive polyimide
processing of, using radiations, 195
Conductivity
complex, of trimerized quasi-one-dimensional CT crystals; arbitrary trimer, 29
temperature dependence of anisotropy of, in oriented reticulate-doped systems, 221
Conductivity dependence
of organic conductor β-$(PT)_2I_3$ (PT = bis(propylenedithiolo)tetrathiafulvalene) under high pressure up to 80 kbar, anomalous, 1
Continuum model
of polydiacetylenes, 377
Copolymers
electronic properties of random-sequenced, 229
highly conductive polymeric electrolytes based on ethylene oxide, and terpolymers, 249
Cyclic voltammetry
studies of modified electrodes starting from pyrrole monomers derivatized

© Elsevier Sequoia/Printed in The Netherlands

by anthraquinone, phenothiazine or anthracene moieties on N or in 3-position; syntheses, and study of charge-transfer reactions, 155
Diacetylenes
comparison of dielectric properties of two isomorphous polymerizable single crystalline; pTS and pFBS, 77
phase and amplitude nonlinear wave equations in polyacetylene and polydiacetylenes, 83
Dielectric properties
comparison of, of two isomorphous polymerizable single crystalline diacetylenes; pTS and pFBS, 77
Di-*p*-fluorobenzenesulfonate
comparison of dielectric properties of two isomorphous polymerizable single crystalline diacetylenes: pTS and, 77
Dithiolene metal complexes
cationic, with 5,6-dihydro-1,4-dithiin-2,3-dithiol; highly conducting metal complex analogues of BEDT-TTF salts, 271
Di-*p*-toluenesulfonate
comparison of dielectric properties of two isomorphous polymerizable single crystalline diacetylenes; and pFBS, 77
Doping level control
chemical insertion of organic cations into polyacetylene; kinetics and, 91

Electrical conductivity
of Ru coordination polymers, synthesis, characterization and, 365
Electrical properties
of methyl diethyl sulfonium TCNQ 1:2 complex salt, 39
of radical-cation salts and charge-transfer complexes in TTF and TSF families, 57
Electrochemical impedance measurements
of p-doped polyacetylene in $LiGaCl_4$–CH_3NO_2 medium, 97
Electrochemical oxidation
of vacuum-deposited carbazole; preparation and film properties, 253
Electrochemical spin response
in polyalkylthiophenes and polydialkylbithiophenes, 129
Electrochemical synthesis
of linear polyaniline in aqueous solutions, 169
Electrode(s)
Raman studies of polypyrrole and polythiophene films on Pt, *in situ*, 143
SERS spectra as evidence of pyrrole and thiophene polymerization on Ag, 135
studies of modified, starting from pyrrole monomers derivatized by anthraquinone, phenothiazine or anthracene moieties on N or in 3-position; syntheses, cyclic voltammetry and study of charge-transfer reactions, 155
Electrolyte(s)
effect of nature of, on properties of unpaired spins in polyaniline, 183
highly conductive polymeric, based on ethylene oxide copolymers and terpolymers, 249
PEO-based polymer blends as materials for solid, 241
Electron correlations
in irradiated $MTPP(TCNQ)_2$ salt studied by IR and visible spectroscopy, 17
Electron irradiation
influence of, on phase transition of organic semiconductor $MTPP(TCNQ)_2$, 53
Electronic properties
of random-sequenced copolymers, 229
Electrostatic investigation
of alkali-metal-doped polyacetylene, 281
Emeraldine base
and pernigraniline forms, spectroscopic studies of acceptor and donor doping of polyaniline in, 319
EPR studies
thermal behaviour of polyacetylene heavily doped with alkali metals, 103
Ethylene oxide
copolymers and terpolymers, highly conductive polymeric electrolytes based on, 249

FT-IR specta
of poly(*N*-methylaniline) and related copolymers, 301

Halogen-substituted polyanilines
structural studies of, by X-ray photo electron spectroscopy, 345

Impedance measurements
electrochemical, of p-doped polyacetylene in $LiGaCl_4$–CH_3NO_2 medium, 97
Intercalation
structural variations of oriented polyacetylene upon, with selected electron donating and accepting species, 113
IR spectroscopy
electron correlations in irradiated $MTPP(TCNQ)_2$ salt studied by, and visible, 17

Kinetics
chemical insertion of organic cations into polyacetylene; and doping level control, 91

Langmuir–Blodgett films
of long-chain tetrathiafulvalene derivative, structural properties of, 307

Magnetic properties
of methyl diethyl sulfonium TCNQ 1:2 complex salt, 39
Magnetoresistance
Shubnikov–de Haas oscillations and, in semi-metallic state of $(TSeT)_2Cl$, 357
Methyl methacrylate
soluble conducting copolymer of 3-methylthiophene and, 387
3-Methylthiophene
and methyl methacrylate, soluble conducting copolymer of, 387
Mössbauer spectroscopy
stability of doped polypyrrole studied by, 151

Nickel
optical study of charge-transfer salts with organic donors issued from TTF and tetracyanometallate planar dianions $M(CN)_4$, M = Pt(II), Ni(II), 9
NMR investigation
high-resolution ^{13}C, of organic conductor $DMTM(TCNQ)_2$, 47

Optical study
of charge-transfer salts with organic donors issued from TTF and tetracyanometallate planar dianions $M(CN)_4$, M = Pt(II), Ni(II), 9
Organic cations
chemical insertion of, into polyacetylene; kinetics and doping level control, 91
Organic conductor
anomalous conductivity dependence of, β-$(PT)_2I_3$ (PT = bis(propylenedithiolo)tetrathiafulvalene) under high pressure up to 80 kbar, 1
$DMTM(TCNQ)_2$, high-resolution ^{13}C NMR investigation of, 47
Organic semiconductor
$MTPP(TCNQ)_2$, influence of electron irradiation on phase transition of, 53

Pernigraniline
polyaniline in emeraldine base and, forms, spectroscopic studies of acceptor and donor doping of, 319
Phase transition
influence of electron irradiation on, of organic semiconductor $MTPP(TCNQ)_2$, 53
Photoacoustic spectra
of poly(*N*-methylaniline) and related copolymers, 301
Platinum
optical study of charge-transfer salts with organic donors issued from TTF and tetracyanometallate planar dianions $M(CN)_4$, M = Pt(II), Ni(II), 9
Raman studies of polypyrrole and polythiophene films on Pt electrodes, *in situ*, 143
Polyacetylene
chemical insertion of organic cations into; kinetics and doping level control, 91
electrochemical impedance measurements of p-doped, in $LiGaCl_4$–CH_3NO_2 medium, 97
electrostatic investigation of alkali-metal-doped, 281
phase and amplitude nonlinear wave equations in, and polydiacetylenes, 83
resonance Raman scattering; probe for high-conductivity $(CH)_x$ films?, 123
structural variations of oriented, upon intercalation with selected electron donating and accepting species, 113

thermal behaviour of, heavily doped with alkali metals; EPR studies, 103
Polyalkylthiophenes
electrochemical spin response in, and polydialkylbithiophenes, 129
Polyaniline(s)
effect of nature of electrolyte on properties of unpaired spins in, 183
electrochemical synthesis of linear, in aqueous solutions, 169
laminate thin films, chemical preparation and characterization of conductive, 333
material still under discussion, 159
N-substituted
photoacoustic and FT-IR spectra of, 301
poly(*N*-methyl aniline and related copolymers, 295
spectroscopic studies of acceptor and donor doping of, in emeraldine base and pernigraniline forms, 319
structural studies of halogen-substituted, by X-ray photoelectron spectroscopy, 345
Polydiacetylenes
continuum model of, 377
Polydialkylbithiophenes
electrochemical spin response in polyalkylthiophenes and, 129
Poly(ethylene oxide)
-based polymer blends as materials for solid electrolytes, 241
Poly(furylene vinylene)
theoretical analysis of Raman spectra of PTV and, 209
Polyimide
processing of conductive, using radiations, 195
Poly(isothianaphthene)
synthesis and characteristic properties of poly(naphtho[2,3-*c*]thiophene) as series of fused-ring conducting polymers analogous to, 263
Polymer(s)
Ru coordination, synthesis, characterization and electrical conductivity of, 365
Polymer blends
PEO-based, as materials for solid electrolytes, 241
Polymerization
SERS spectra as evidence of pyrrole and thiophene, on Ag electrodes, 135
Poly(*N*-methylaniline)
and related copolymers, 295
photoacoustic and FT-IR spectra of, 301
Poly(naphtho[2,3-*c*]thiophene)
synthesis and characteristic properties of, as series of fused-ring conducting polymers analogous to poly(isothianaphthene), 263
Polypyrrole
Raman studies of, and polythiophene films on Pt electrodes, *in situ*, 143
stability of doped, studied by Mössbauer spectroscopy, 151
Poly(thienylene vinylene)
theoretical analysis of Raman spectra of, and PFV, 209
Polythiophene
Raman studies of polypyrrole and, on Pt electrodes, *in situ*, 143
Poly(11-vinylfluoranthene)
novel conducting material, 371
Pyrrole
SERS spectra as evidence of, and thiophene polymerization on Ag electrodes, 135
Pyrrole monomers
studies of modified electrodes starting from, derivatized by anthraquinone, phenothiazine or anthracene moieties on N or in 3-position; syntheses, cyclic voltammetry and study of charge-transfer reactions, 155

Radiations
processing of conductive polyimide using, 195
Radical-cation salts
electrical properties and structural data of, and charge-transfer complexes in TTF and TSF families, 57
Raman scattering spectra
surface enhanced, as evidence of pyrrole and thiophene polymerization on silver electrodes, 135
Raman spectra
of PTV and PFV, theoretical analysis of, 209
Raman studies
of polypyrrole and polythiophene films on Pt electrodes, *in situ*, 143
Resonance Raman scattering
probe for high-conductivity $(CH)_x$ films?, 123

Reticulate-doped polymers
submicroscopic structure of TTT-TCNQ conductive network in, revealed by SEM, 215
Reticulate-doped systems
temperature dependence of anisotropy of conductivity in, 221
Ruthenium
synthesis, characterization and electrical conductivity of Ru coordination polymers, 365

Scanning electron microscopy
submicroscopic structure of TTT-TCNQ conductive network in reticulate-doped polymers revealed by, 215
Selenium
electrical properties and structural data of radical-cation salts and charge-transfer complexes in TTF and TSF families, 57
Shubnikov–de Haas oscillations and magnetoresistance in semi-metallic state of $(TSeT)_2Cl$, 357
tetraformyltetraheterofulvalenes (TFTXF, X = S, Se); precursors of highly functionalized TTF and TSeF, 65
SERS spectra
as evidence of pyrrole and thiophene polymerization on Ag electrodes, 135
Shubnikov–de Haas oscillations
and magnetoresistance in semi-metallic state of $(TSeT)_2Cl$, 357
Silver
SERS spectra as evidence of pyrrole and thiophene polymerization on Ag electrodes, 135
Spectroscopic studies
of acceptor and donor doping of polyaniline in emeraldine base and pernigraniline forms, 319
Stability
of doped polypyrrole studied by Mössbauer spectroscopy, 151
Structural data
of radical-cation salts and charge-transfer complexes in TTF and TSF families, 57
Structural properties
of Langmuir–Blodgett films of long-chain tetrathiafulvalene derivative, 307
Structural studies
of halogen-substituted polyanilines by X-ray photoelectron spectroscopy, 345
Structural variations
of oriented polyacetylene upon intercalation with selected electron donating and accepting species, 113
Sulfur
tetraformyltetraheterofulvalenes (TFTXF, X = S, Se); precursors of highly functionalized TTF and TSF families, 65
Synthesis
of poly(naphtho[2,3-*c*]thiophene) as series of fused-ring conducting polymers analogous to poly(isothianaphthene), 263
of Ru coordination polymers, characterization and electrical conductivity, 365

Temperature dependence
of anisotropy of conductivity in oriented reticulate-doped systems, 221
Terpolymers
highly conductive polymeric electrolytes based on ethylene oxide copolymers and, 249
Tetracyanometallate planar dianions
$M(CN)_4$, M = Pt(II), Ni(II), optical study of charge-transfer salts with organic donors issued from TTF and, 9
Tetracyanoquinodimethane salts
electrical and magnetic properties of methyl diethyl sulfonium TCNQ 1:2 complex salt, 39
electron correlations in irradiated $MTPP(TCNQ)_2$ salt studied by IR and visible spectroscopy, 17
high-resolution ^{13}C NMR investigation of organic conductor DMTM-$(TCNQ)_2$, 47
influence of electron irradiation on phase transition of organic semiconductor $MTPP(TCNQ)_2$, 53
submicroscopic structure of TTT-TCNQ conductive network in reticulate-doped polymers revealed by SEM, 215

Tetraformyltetraheterofulvalenes
TFTXF, X = S, Se; precursors of highly functionalized TTF and TSeF, 65
Tetrathiafulvalene derivative
structural properties of Langmuir–Blodgett films of long-chain, 307
Tetrathiafulvalene salts
anomalous conductivity dependence of organic conductor β-$(PT)_2I_3$ (PT = bis(propylenedithiolo)tetrathiafulvalene) under high pressure up to 80 kbar, 1
BEDT-, highly conducting metal complex analogues of; cationic dithiolene metal complexes with 5,6-dihydro-1,4-dithiin-2,3-dithiol, 271
electrical properties and structural data of radical-cation salts and charge-transfer complexes in TTF and TSF families, 57
tetraformyltetraheterofulvalenes (TFTXF, X = S, Se); precursors of highly functionalized TTF and TSeF, 65
optical study of charge-transfer salts with organic donors issued from TTF and tetracyanometallate planar dianions $M(CN)_4$, M = Pt(II), Ni(II), 9
Tetraselenotetracene derivatives
Shubnikov–de Haas oscillations and magnetoresistance in semi-metallic state of $(TSeT)_2Cl$, 357
Theoretical analysis
of Raman spectra of PTV and PFV, 209
Thermal behaviour
of polyacetylene heavily doped with alkali metals; EPR studies, 103
Thermocell
durable performance of, 383
Thiophene
SERS spectra as evidence of pyrrole and, polymerization on Ag electrodes, 135

Valence bonds
itinerant, 67
Visible spectroscopy
electron correlations in irradiated $MTPP(TCNQ)_2$ salt studied by IR and, 17

Wave equations
phase and amplitude nonlinear, in polyacetylene and polydiacetylenes, 83

X-ray photoelectron spectoscopy
structural studies of halogen-substituted polyanilines by, 345